

Applicant: Steven D. Potter
For: LINEAR RELUCTANCE MOTOR

ABSTRACT OF DISCLOSURE

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A linear reluctance motor including a stator with a set of spaced blades each extending in the direction of the actuation axis, each blade including a plurality of alternating low permeability and high permeability teeth. A shuttle also includes a set of spaced blades each extending in the direction of the actuation axis interleaved with the blades of the stator, each blade of the shuttle also including a plurality of alternating low permeability and high permeability teeth. An active component is associated with either the stator, the shuttle, or both. The active component is divided into at least N phases, each phase including a set of blades, a flux return portion, and a coil wound to produce flux through the sets of interleaved blades in a direction substantially transverse to the actuation axis.

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